

2024 Annual Workshop

(from Climate Extremes to Future Weather)



climate extremes
ARC centre of excellence



**21st Century
Weather**



Rydge's Resort Hunter Valley

We will gather around the lands of the Wonnarua, Worimi, and Awabakal people. The Traditional Custodians have looked after these lands for thousands of years, and it continues to sustain them spiritually and physically. We pay our respects to their Elders, past, present, and emerging.

Welcome

Thank you for participating in the joint ARC Centre of Excellence for Climate Extremes and the ARC Centre of Excellence for the Weather of the 21st Century Annual Workshop for 2024. We are delighted that you're joining us and trust that the workshop will be intellectually stimulating and afford excellent opportunities to spend time with colleagues and make new connections to

expand your professional network.

Chief amongst our goals for this workshop is to provide opportunities to connect within and across our research programs, share our latest research with each other, identify synergies for current and future collaboration and simply take a few days out of our normal routines to focus almost entirely on science, collegiality and friendship.

Whether you are a student, early career researcher, technical programmer or seasoned scientist, the agenda – which is made up of centre updates, science talks, keynotes, poster sessions and breakouts – will no doubt prove to be engaging and informative.

This handbook provides information on the agenda and workshop logistics. If you have any questions not covered by this guide, please get in touch with your node administrator or email clex@unsw.edu.au for CLEX or Jessica Manuel (Jessica.Manuel@monash.edu) from the 21st Century Weather.

ARC Centre of Excellence for Climate Extremes

The ARC Centre of Excellence for Climate Extremes (CLEX) is a research consortium of five Australian universities and a suite of outstanding national and international partner organisations. The overarching vision of our centre is to:

Transform the understanding and modelling of climate extremes, including their dependence on climate change and variability, to advance scientific understanding and assist decision-makers. We will focus on key processes, mechanisms, and phenomena, informed by a two-way dialogue with government and business to ensure our research has influence and impact.

ARC Centre of Excellence for the Weather of the 21st Century

We research how Australia's weather is being reshaped by climate change. Under the directorship of Professor Christian Jakob and the wider leadership team, 21st Century Weather is a consortium of 24 partners, led by Monash University in strong collaboration with the University of Melbourne, the University of New South Wales, the Australian National University, and the University of Tasmania.

Guided by the wide-ranging expertise and needs for climate information in our partner cohort, we co-design and co-execute research projects with direct outcomes and outputs of relevance to our partners, and through them, the wider Australian community.

Will changes in our weather enhance or limit Australia's ability to sustain our economy and community? Australian businesses and governments will have to answer such questions based on the best knowledge and technology available. This will require us to know the future of our weather. Achieving future climate resilience requires us to transform our thinking of climate change to one of weather change.

Both Centre of Excellence visions become even more tangible and immediate when we gather as a whole. We are happy to welcome you to our co badged annual workshop, held at the Rydges Resort Hunter Valley.

Our Commitment to Respect and Diversity

Gender, ethnicity, sexuality, age, disability and other personal characteristics should not be impediments to your full engagement and enjoyment of the workshop. Nor should such personal traits be grounds for language or actions from any workshop participants that are discriminatory or intimidating. By attending the workshop, you agree to abide by standards that are ethical, respectful and considerate of all other workshop attendees and venue staff at all times. We expect the same approach on digital platforms and social media. If you have concerns at any point during the workshop, you're invited to speak to members of the CLEX Diversity and Culture committee who will be identifiable by a RED CLEX lanyard.

Prayer room

When not in use for breakouts (16.30 – 17.30 on Wednesday 6th) the Verdelho Room will be a designated prayer room – look out for the sign on the door!

WIFI

Network = Rydges-Guest. Password = **CLIMATE2024**

SLIDO

Questions for the day on slido: <https://tinyurl.com/HunterValleyWorkshopSlido2024>

A Sustainable Workshop

This year, we gave extra thought to how to reduce the environmental impact of the workshop. We focused on reducing single-use plastic, and on choosing sustainable options when possible. Here are some measures we took:

- Lanyards and pouches are recycled from previous events
- Agenda on [CLEX intranet](#) rather than printed
- No plastic or plastic wrapped branded souvenirs
- An emphasis on locally produced, sustainable choices for catering

Here are some more tips on how you can prepare for the workshop:

- Bring your own water bottle
- Bring your own lanyard and plastic pouch if you have one lying around and leave your lanyard and pouch behind at the end of the workshop
- Bring your own keep cup /coffee mug for outside espresso runs
- Print your poster on paper only, without lamination

Workshop Venue Monday 4 – Thursday 7 November

Rydges Resort Hunter Valley

Rydges Resort Hunter Valley offers an exceptional experience, allowing you to remove yourself from distractions, clear your mind, breathe fresh air, and admire the local landscape. You can enjoy premium local gourmet produce and world-class wines right from our doorstep. Our resort caters to business events for 10 to 1600 delegates, providing outstanding facilities and professional service from our friendly team. Spanning 100 acres, it boasts one of Australia's largest regional convention spaces with 4000sqm of flexible meeting space, 417 accommodation rooms and villas, an 18-hole championship golf course, a 17-room day spa, and the award-winning onsite Sydney Brewery,

Hunter Valley. As the Hunter Valley's only fully integrated resort, Rydges Resort Hunter Valley offers world-class facilities, New South Wales' largest regional conference centre, and seamless service to bring guests together to reconnect, create memories, and inspire ideas, leaving you feeling re-energised and inspired.

Rydges Resort Hunter Valley: <https://www.rydges.com/accommodation/regional-nsw/hunter-valley/>



Registration & Networking activity

An informal icebreaker and educational activity will start at 16:30 on Monday 4th November. Registration and collection of name badges will commence from 17.30 on Monday 4th November with a complimentary welcome buffet dinner that will be held on the Pergola at the Rydges Resort Hunter Valley- indoor if weather permits. Look out for the CLEX and 21st Century Weather banner.

Networking Activity

Upon arrival all attendees will receive an envelope containing a part of an artwork. Your task is to find the owners of the remaining three parts of your artwork, the first 10 groups to 'complete' their artwork wins a small prize. Come see the professional admin staff to claim your prize.

Educational activity 'Tasting the Weather on our Palate'

Welcome to "Tasting the Weather on Our Palate," an exploration of how weather influences the taste of the wine in your glass! Climate plays a vital role in winemaking, influencing the growth, harvest, and flavour of grapes. This tasting will highlight how variations in weather, such as an unusually warm or wet year, can alter the taste and quality of wine, offering a unique insight into the delicate balance between climate, weather and winemaking. The tasting will be delivered by Hunter Valley winery Saddler's Creek.

For attendees preferring a non-alcoholic alternative, a local ice tea maker Buds and Beads will offer a selection of sparkling teas.

Workshop Themes

Plenary Talks will be grouped into three thematic sessions which seek to weave together threads of research from Climate Extremes to Future Weather. Each thematic session will open with a keynote talk that introduces the topic followed by a guest speaker then 2 shorter talks. Sessions will end with

a panel style Q&A with all four speakers available to answer questions on the theme from a range of perspectives.

Theme 1: The role of dynamics in understanding extremes

Theme 2: High resolution modelling to understand extremes

Theme 3: Prediction and projection of extremes in a warming world

Posters and poster sessions

All workshop attendees are strongly encouraged to bring a poster. Posters should be no bigger than A0 size and portrait aligned. ***Please note if not portrait aligned, we will not be able to display it***

This year there will be three separate poster sessions. Prior to the workshop you'll be asked to reconfirm your intention to bring a poster and will be assigned to present during a poster session on one of the three days.

Please drop off your poster at the beginning of the ECR day or when you register on Monday the 4th. The assigned poster board number will be available closer to the workshop. The poster schedule will be available on the [CLEX Intranet](#).

Posters from the final session will to be removed by 13:30 on Thursday the 7th, as the poster boards will be dismantled and removed after this time.

It is your responsibility to keep your own poster tube we also will not have spare poster tubes. Tubes left in the poster room are unlikely to find their way back to their original owner and will not be stored for you.

Lightning Lectures

If you're giving a poster, you're also invited to give a 60 second lightning lecture prior to your allocated poster session to give a very brief introduction to your work and encourage people to visit your poster. We *strongly* encourage creativity during your 60 seconds of fame. In the past we've had haiku, wetsuits and bagpipes to name just a few weird and wonderful lightning lectures.

Workshop attendees will receive an email a few weeks prior to the workshop with a link to upload a single illustrative slide for their lightning lecture.

Please that all lightning lecture slides need to be submitted before Friday 18th October.

For all questions regarding lightning lectures please contact jessica.manuel@monash.edu

Link to timings here <https://home.climateextremes.org.au/poster-sessions-lightning-lectures/>

Travel

Bus Departing Sydney Schedule

You will receive an email with location details and another email soon regarding your assigned coach for the return trip from Rydges Hunter Valley to either UNSW or Sydney Airport.

Sunday, 3rd November (registered passengers only):

From UNSW

- **Departure Time:** 12:00 pm sharp
- **Boarding Time:** Please ensure all participants are on board by 11:30 am
- **Location:** UNSW, UNSW Gate 14 Barker Street coach bays

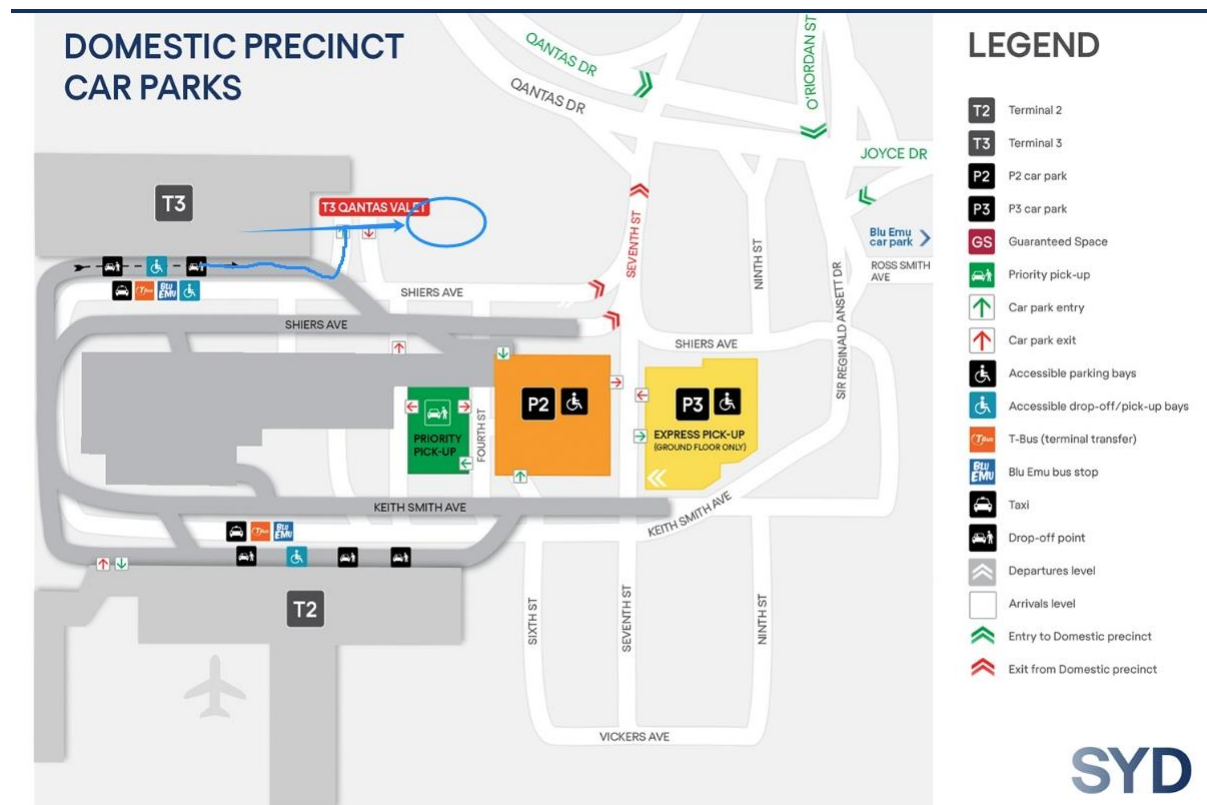
From Sydney Airport

- **Departure Time:** 12:00 pm sharp
- **Boarding Time:** Please ensure all participants are on board by 11:30 am
- **Location:** Sydney Airport T3 bus parking area

Monday, 4th November (registered passengers only):

From Sydney Airport (only)

- **Departure Time:** 12:30 pm sharp
- **Boarding Time:** Please arrive and be ready to board by 12:00 pm
- **Location:** Sydney Airport T3 bus parking area (see map below)



Travel Information for Interstate Attendees

For those traveling from interstate, please arrange your flights to Sydney Domestic Airport with sufficient time to disembark, collect your luggage, and reach the bus collection area. Make sure to comply with your local travel policies, and feel free to contact your node administrator for any assistance or inquiries.

Day 3/11 – Sunday (latest flight options)

Departure Location	Departure Time	Arrival Location	Arrival Time	Airline	Flight Details
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Hobart	9:45am	Sydney Airport	11:35am	Virgin	VA1531
Canberra	9:10am	Sydney Airport	10:05am	Qantas	QF1430
Melbourne	9:15am	Sydney Airport	10:40am	Qantas	QF428

Day 4/11 – Monday (latest flight options)

Departure Location	Departure Time	Arrival Location	Arrival Time	Airline	Flight Details
Hobart	9:45am	Sydney Airport	11:35am	Virgin	VA1531
Canberra	10:20am	Sydney Airport	11:20am	Virgin	VA641
Melbourne	10:00am	Sydney Airport	11:25am	Virgin	VA833

Important Note:

The approved mode of transportation to the annual workshop is by coach only. Any alternative travel arrangements must be pre-approved and funded by your home institution.

Please coordinate with your local node administrator to discuss your institutional travel policies and secure approval and funding for alternative travel options.

Please ensure that your flight bookings comply with your local travel policy. For assistance, contact your node administrator.

Bus Departure Information:

- Buses depart promptly at 12:00pm on Sunday and 12:30pm on Monday.
- We will monitor flight arrivals closely and aim to accommodate delays affecting multiple attendees by holding the bus when possible.

For assistance, contact Vilia at 0404 088 998 on Sunday and Stephen at 0403 802 027 on Monday.

Accommodation Information on Thursday

The annual workshop will be held from Tuesday, November 5th to Thursday, November 7th. The Early Career Researcher (ECR) day is scheduled for Monday, November 4th. ECRs are encouraged to arrive on Sunday, November 3rd, and non-ECRs on Monday, November 4th, depending on their travel preferences and approval. All participants are expected to depart Hunter Valley after the workshop concludes on Thursday, November 7th at 16:00.

Flight Options for Thursday, November 7th:

Departure Location	Departure Time	Arrival Location	Arrival Time	Airline	Flight Details
Sydney	19:20pm	Hobart Airport	21:15pm	Qantas	QF997
Sydney	21:10pm	Canberra Airport	22:05pm	Qantas	QF1459
Sydney	21:00pm	Melbourne Airport	22:35pm	Virgin	VA894

Due to the late arrival times in Sydney, you may need to arrange overnight accommodation in Sydney. Please contact your node administrator to make these arrangements.

Recommended Sydney Hotels for Thursday Night, November 7th:

- **Ibis Sydney Airport** Rate: \$219 per night
- **Meriton Suites Mascot Central** Rate: \$250 per night
- **Ibis Budget Sydney Airport** Rate: \$209 per night

Shared Accommodation Options for Students:

- **Airport Hotel Superior Twin Room** Rate: \$189 per night for two people
- **Ibis Budget – St Peters** 2 x Standard Double Room: \$212
- **YHA Sydney Central** Bunk Bed in Shared Dorm: \$89

Any accommodation beyond the specified dates must be arranged and funded independently. The Centre will not cover costs for additional guests.

Accommodation at the Rydges Resort Hunter Valley

Please bring identification for check-in, which begins at 3 PM. Check-out is at 11 AM.

Room and breakfast are charged to the master account. Additional expenses, including minibar, are self-funded and paid at checkout.

Accommodation in Hunter Valley will be on-site at Rydges Resort. We have a block booking on various room types:

Run of House with Breakfast (1 per room): Bedding may be 1 king or 2 double beds in either hotel or villa style accommodation.

Two Bedroom Villa 2 King Beds with Breakfast (2 per room): With two equal-sized bedrooms each boasting a King Bed, a bathroom in each, kitchenette, separate living and dining area, and balcony overlooking the sprawling resort.

Three Bedroom 2 Bath Villa with Breakfast (3 per room): One King bedroom, two Queen bedrooms and two full bathrooms, kitchenette, dining and lounge area, balcony or patio and you may never want to leave.

Food

A day delegate package of morning/afternoon tea and lunch will be provided throughout the conference for registered attendees. Those who indicated dietary requirements when registering will be catered for throughout the workshop week.

Please note that reimbursements from local nodes will only cover Tuesday night for non ECRs and breakfasts as morning tea, lunch and afternoon tea will be provided each day at the workshop. ECRs will have a dinner/social event on Tuesday the 5th, and the workshop dinner will be held on Wednesday the 6th.

Dress code for the dinner: Our dress code is business casual, or casual which means attire suitable for the office, such as dress pants, blouses, collared shirts, t-shirts, jeans, sneakers, please no bare feet or thongs.

Note: Barista coffee and tea will be served throughout the conference at arrival and during morning and afternoon teas.

Social Events

Monday November 4th: 16:30 Educational Experience followed by registration and Welcome dinner and drinks at 17:30

Location: Rydges Resort Hunter Valley

An educational experience followed by registration and a welcome buffet dinner and drinks at the Pergola at the Rydges Resort Hunter Valley. The Pergola is an outdoor space.

There will be a bar tab which will cover an initial round or two drinks for everyone. Once the tab has been reached, additional beverages will be at attendee's own expense. *Additional beverages should not be charged back to CLEX accounts.*

Tuesday Night ECR Social event

The ECR Committee has organised an evening of dinner and socialising at the Redsalt Restaurant at the Rydges. Food and one to two beverages will be included. Once the tab has been reached, additional beverages will be at attendee's own expense. *Additional beverages should not be charged back to CLEX accounts.*

Wednesday November 6th : Workshop Dinner

Location: Rydges Resort - Semillon Ballroom

The Workshop Dinner will be held at Semillon Ballroom from 19.00. A three-course dinner and some drinks will be provided. Additional alcoholic beverage consumption will be at delegates' private expense.

Covid-safe measures

The following measures will be in place to reduce the risk of Covid-19 infection during the workshop in order to protect the health and safety of attendees and venue staff.

We have had to adopt several procedures to safeguard the health and well-being of all annual workshop participants and staff. Please ensure you read through and adhere to the following points; if you have any questions or need further information, please contact Stephen Gray/ Vilia Co.

1. While no longer compulsory, please do bring your own face mask if you wish to use one.
2. If you experience any cold or flu symptoms prior to travelling to the annual workshop, please contact Jenny Rislund or Vilia Co immediately as you will not be able to travel.
3. If you experience any cold or flu symptoms during the annual workshop, please inform Stephen Gray or Vilia Co immediately.

Rydges Resort Hunter Valley's approach to covid has always been about following government directives. As it stands currently, they still provide hand sanitisers at the entrance of the building for their members of the public. If any recommendations come through from the government, they will be following and implementing them.

Case Management

If you become unwell during the workshop, including mild cold-like symptoms, please self-administer a rapid antigen test. It's recommended that you pack a couple of test kits in your luggage. Additionally, we will have a limited number of spare tests and masks on site.

Even if the result is negative, you may wish to consider leaving the workshop early so that you can be at home in case your condition deteriorates and to avoid spreading cold or flu, even if your symptoms are not associated with Covid.

Whilst we are no longer subject to compulsory self-isolation upon testing positive to Covid, for the wellbeing of other workshop attendees we ask that you immediately withdraw from workshop activities if you test positive to the virus.

Feedback

Feedback <https://tinyurl.com/WorkshopFeedback2024>

2024 Workshop Committee

Vilia Co (UNSW)

Taira Malby-Freckleton (UNSW)

Jessica Manuel (Monash)

Sramana Neogi (Monash)

Jiaxin Shi (UTAS)

Marty Singh (Monash)

Andrea Taschetto (UNSW)